

Notice of Allowability

Application No.

09/441,380

Examiner

Ramnandan Singh

Applicant(s)

HEIN, JERRELL P.

Art Unit

2614

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Jan. 30, 2006.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

1. This action is in response to applicant's Supplemental Appeal Brief filed on Jan. 30, 2006. **Claims 1-16** are pending in the present application.

2. EXAMINER'S AMENDMENT/COMMENT

Applicant has agreed to the following amendment during his telephonic interview with the Examiner held on July 20, 2006:

(i) Claim 1, line # 5, change "sampled line voltage" -----line voltage----

(ii) Claim 1, line # 5, change "sampled line current" -----line current----

(ii) Claim 4, line # 2, change "programming"-----providing----

The Interview summary is enclosed.

REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

Claim 1 identifies the uniquely distinct feature of a method of monitoring subscriber loop interface circuitry power dissipation, the method comprising the steps of: a) sampling at least one of a tip and a ring signal to determine a line voltage and a line current of a linefeed component of a subscriber loop; b) estimating an instantaneous power dissipation of the linefeed component using the line voltage and line current; and c) filtering the estimated instantaneous power dissipation to generate an estimated

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junction temperature of the linefeed component. As such, claim 1 requires converting the instantaneous power dissipation into a temperature of the linefeed. However, the closest prior art, Kaplan [US 4,355,341] teaches estimating instantaneous power dissipation of a semiconductor, but he fails to generate a temperature using the instantaneous power dissipation. In this context, the applicant's argument is persuasive in that Kaplan does not teach or suggest all claim limitations. Thus, the prior art of records does not teach these limitations. Therefore, claim 1 is indicated allowable.

Claims 5 and 7 are essentially similar to claim 1 and hence they are also indicated allowable.

Claims 2-4 being dependent from claim 1, claims 6 being dependent from claim 5, and claims 8-12 being dependent from claim 7 are also indicated allowable.

4. The examiner's statement of reasons for allowance for claims 13-16 has been given in the prior office action, dated Aug. 11, 2004.

New search updates revealed no other prior art which teaches the limitations in the context of the claims.

3. The claims have been re-numbered as follows:

CLAIMS NUMBER (ORIGINAL)

1-16

CLAIMS NUMBER (FINAL)

1-16

Claim no. 1 along with figure number 1 will be published in the Official Gazette.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ramnandan Singh whose telephone number is (571) 272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Fan Tsang can be reached on (571) 272-7547. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ramnandan Singh
Examiner
Art Unit 2614



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SUPERVISORY PATENT EXAMINER
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